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PPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 6872	
10/079,985		02/21/2002	Hirokazu Tamura	AMY-002.01		
25181	7590	05/28/2003				
FOLEY HO			EXAMINER			
PATENT GROUP, WORLD TRADE CENTER WEST 155 SEAPORT BLVD BOSTON, MA 02110				TRAN, MAI HUONG C		
- 001011,11	02110	,		ART UNIT	PAPER NUMBER	
				2818		
				DATE MAILED: 05/28/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		10/079,985	TAMURA ET AL.
	Office Action Summary	Examiner	Art Unit
		Mai-Huong Tran	2818
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet wit	th the correspondence address
THE N - Exter after - If the - If NO - Failui - Any n	ORTENED STATUTORY PERIOD FOR REI MAILING DATE OF THIS COMMUNICATION asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state the ply received by the Office later than three months after the maid patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty od will apply and will expire SIX (6) MONT tute, cause the application to become AR	reply be timely filed (30) days will be considered timely. THS from the mailing date of this communication.
1)🖂	Responsive to communication(s) filed on 0	<u>5 May 2003</u> .	
2a) <u></u> ☐	This action is FINAL . 2b)⊠	This action is non-final.	
3) Disposition	Since this application is in condition for allo closed in accordance with the practice und on of Claims	wance except for formal matt er <i>Ex parte Quayle</i> , 1935 C.D	ers, prosecution as to the merits is 11, 453 O.G. 213.
4) 🖾	Claim(s) 1-69 is/are pending in the applicati	ion.	
4	4a) Of the above claim(s) is/are withd	rawn from consideration.	
5)⊠	Claim(s) <u>64-69</u> is/are allowed.		
6)⊠	Claim(s) <u>1-63</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
	Claim(s) are subject to restriction and on Papers	/or election requirement.	
9)[] T	he specification is objected to by the Examin	ner.	
	he drawing(s) filed on <u>07 June 2002</u> is/are:		to by the Examiner
	Applicant may not request that any objection to		
11) 🔲 T	he proposed drawing correction filed on	is: a) ☐ approved b) ☐ dis	
	If approved, corrected drawings are required in		The second of th
12) 🔲 T	he oath or declaration is objected to by the E		
Priority ur	nder 35 U.S.C. §§ 119 and 120		
13) 🗌 🛚 A	Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C. §	119(a)-(d) or (f)
	All b) Some * c) None of:	•	
1	. Certified copies of the priority documer	nts have been received.	
2	Certified copies of the priority documer		plication No.
	Copies of the certified copies of the pri application from the International B te the attached detailed Office action for a lis	ority documents have been re ureau (PCT Rule 17 2(a))	eceived in this National Stage
	knowledgment is made of a claim for domes		
a) (15)∐ Ac	The translation of the foreign language pre- knowledgment is made of a claim for domes	ovisional application has bee	n received.
Attachment(s			
2) 🔲 Notice (of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ition Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	mmary (PTO-413) Paper No(s) prmal Patent Application (PTO-152)
Patent and Trad O-326 (Rev.		Action Summary	Part of Paper No. 7

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DETAILED ACTION

Election/Restriction

Applicant's election with traverse of Group I (claims 1-69) in Paper No. 6 drawn to a semiconductor device is acknowledged. Accordingly, claims 70-107 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Because Applicant did not distinctly and specifically point out the supposed error in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Applicant has the right to file a divisional application covering the subject matter of the non-elected claims.

The traversal is on the ground(s) that see the election paper. This is not found persuasive because the fields of search for method' and device claims are NOT coextensive and the determinations of patentability of method and device claims are different, that is process limitations and device limitations are given weight differently in determining the patentablitity of the claimed inventions. Also, the strategies for doing text searching of the device claims and method claims are different. Thus, separate searches are required.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 U.S.C. § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 are rejected under 35 U. S. C. § 102 (b) as being anticipated by U.S. Patent No. 6,044,056 to Wilde et al.

Regarding to claim 1, Wilde discloses a MEMS device, the MEMS device comprising a substrate 810 having a surface, an actuable element 160 at least partially formed from the substrate, and an electromagnetic actuator 180 disposed on the substrate for selectively applying a first force to the actuable element to displace the actuable element along a path as set forth in cols. 4-5, and fig. 1.

Regarding to claim 2, Wilde discloses the MEMS device wherein the actuable element has a base 170 and an arm 160 coupled thereto, the base of the actuable element including a port in comprised of a magnetic material as set forth in col. 4, lines 8-31, and fig. 1.

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Claim Rejections - 35 U.S.C. § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-69 are rejected under 35 U.S.C. 103 (a) as being unpatentable over U.S. Patent No. 6,044,056 to Wilde et al. in view of the remark.

Regarding to claim 3, Wilde discloses the claimed invention except for the magnetic material is comprised of at least one of a permanent magnetic material and a soft magnetic material.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to form a magnetic material comprising of at least one of a permanent magnetic material and a soft magnetic material since it was known in the art that a magnetic material comprising of at least one of a permanent magnetic material and a soft magnetic material.

Regarding to claim 4, Wilde discloses the claimed invention except for the magnetic material is comprised of at least one of ferrites, remalloy, vicalloy, AlNiCo, Co,

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CoPt, a rare earth metal, NiFe, CoFe, CoZr, FeN, AlSiFe, NiFeMo, NiFeCuCr, NiFeCo, CoFeB, CoFeV, CoFeCr, CoZrTa, FeAlN, FeTaN, and combinations thereof.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to form magnetic material comprised of at least one of ferrites, remalloy, vicalloy, AlNiCo, Co, CoPt, a rare earth metal, NiFe, CoFe, CoZr, FeN, AlSiFe, NiFeMo, NiFeCuCr, NiFeCo, CoFeB, CoFeV, CoFeCr, CoZrTa, FeAlN, FeTaN, and combinations thereof, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

Claim 5 is rejected under the same rationale set forth above to claim 3.

Claim 6 is rejected under the same rationale set forth above to claim 3.

Claim 7 is rejected under the same rationale set forth above to claim 6.

Claim 8 is rejected under the same rationale set forth above to claim 7.

Claim 9 is rejected under the same rationale set forth above to claim 7.

Claim 10 is rejected under the same rationale set forth above to claim 7.

Claim 11 is rejected under the same rationale set forth above to claim 7.

Claim 12 is rejected under the same rationale set forth above to claim 7.

Claim 13 is rejected under the same rationale set forth above to claim 7.

Claim 14 is rejected under the same rationale set forth above to claim 7.

Claim 15 is rejected under the same rationale set forth above to claim 7.

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Claim 16 is rejected under the same rationale set forth above to claim 14.

Claim 17 is rejected under the same rationale set forth above to claim 7.

Claim 18 is rejected under the same rationale set forth above to claim 14.

Claim 19 is rejected under the same rationale set forth above to claim 14.

Claim 20 is rejected under the same rationale set forth above to claim 14.

Claim 21 is rejected under the same rationale set forth above to claim 20.

Claim 22 is rejected under the same rationale set forth above to claim 20.

Claim 23 is rejected under the same rationale set forth above to claim 14.

Claim 24 is rejected under the same rationale set forth above to claim 14.

Claim 25 is rejected under the same rationale set forth above to claim 1.

Claim 26 is rejected under the same rationale set forth above to claim 1.

Claim 27 is rejected under the same rationale set forth above to claim 26.

Claim 28 is rejected under the same rationale set forth above to claim 1.

Claim 29 is rejected under the same rationale set forth above to claim 28.

Claim 30 is rejected under the same rationale set forth above to claim 28.

Claim 31 is rejected under the same rationale set forth above to claim 1.

Claim 32 is rejected under the same rationale set forth above to claim 31.

Claim 33 is rejected under the same rationale set forth above to claim 32.

Claim 34 is rejected under the same rationale set forth above to claim 31.

Claim 35 is rejected under the same rationale set forth above to claim 34.

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Claim 36 is rejected under the same rationale set forth above to claim 34. Claim 37 is rejected under the same rationale set forth above to claim 36. Claim 38 is rejected under the same rationale set forth above to claim 36. Claim 39 is rejected under the same rationale set forth above to claim 38. Claim 40 is rejected under the same rationale set forth above to claim 31. Claim 41 is rejected under the same rationale set forth above to claim 31. Claim 42 is rejected under the same rationale set forth above to claim 31. Claim 43 is rejected under the same rationale set forth above to claim 42. Claim 44 is rejected under the same rationale set forth above to claim 43. Claim 45 is rejected under the same rationale set forth above to claim 1. Claim 46 is rejected under the same rationale set forth above to claim 1. Claim 47 is rejected under the same rationale set forth above to claim 46. Claim 48 is rejected under the same rationale set forth above to claim 46. Claim 49 is rejected under the same rationale set forth above to claim 46.

Regarding to claim 50, Wilde discloses a substrate 810, an actuable element 160 to displace the actuable element along a path. Wilde does not disclose at least one cantilever coupled to the actuable element at one end and the substrate at another end to control displacement of the actuable element along the path. It would have been obvious to one of ordinary skill in the art at the time the invention was made to form at least one cantilever coupled to the actuable element at one end and the substrate at another end to

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control displacement of the actuable element along the path since it was known in the art that at least one cantilever coupled to the actuable element at one end and the substrate at another end to control displacement of the actuable element along the path.

Claim 51 is rejected under the same rationale set forth above to claim 50.

Claim 52 is rejected under the same rationale set forth above to claim 50.

Claim 53 is rejected under the same rationale set forth above to claim 52.

Claim 54 is rejected under the same rationale set forth above to claim 52.

Claim 55 is rejected under the same rationale set forth above to claim 54.

Claim 56 is rejected under the same rationale set forth above to claim 50.

Claim 57 is rejected under the same rationale set forth above to claim 56.

Claim 58 is rejected under the same rationale set forth above to claim 50.

Claim 59 is rejected under the same rationale set forth above to claim 50.

Claim 60 is rejected under the same rationale set forth above to claim 50.

Claim 61 is rejected under the same rationale set forth above to claim 60.

Claim 62 is rejected under the same rationale set forth above to claim 50.

Claim 63 is rejected under the same rationale set forth above to claim 50.

Allowable Subject Matter

Claims 64-69 allowed.

The following is a statement of reasons for the indication of allowable subject matter:

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None of the references of record teaches or suggests the claimed a MEMS device comprising a second actuable elements, a second MEMS actuator for selectively applying a second force to the second actuable element to displace the second actuable element along a second path, a second cantilever coupled to the second actuable element for controlling the displacement of the second actuable element along the second path, and an electromagnetic MEMS actuator comprising an electrically conductive coil.

Conclusion

Any inquiry concerning this communication on earlier communications from the examiner should be directed to Mai-Huong Tran, (703) 305-1958. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 6:30 PM. The examiner's supervisor, David Nelms can be reached on (703) 308-4910.

The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7724. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Mái-Huong Tran

HOAI HO PRIMARY EXAMINER